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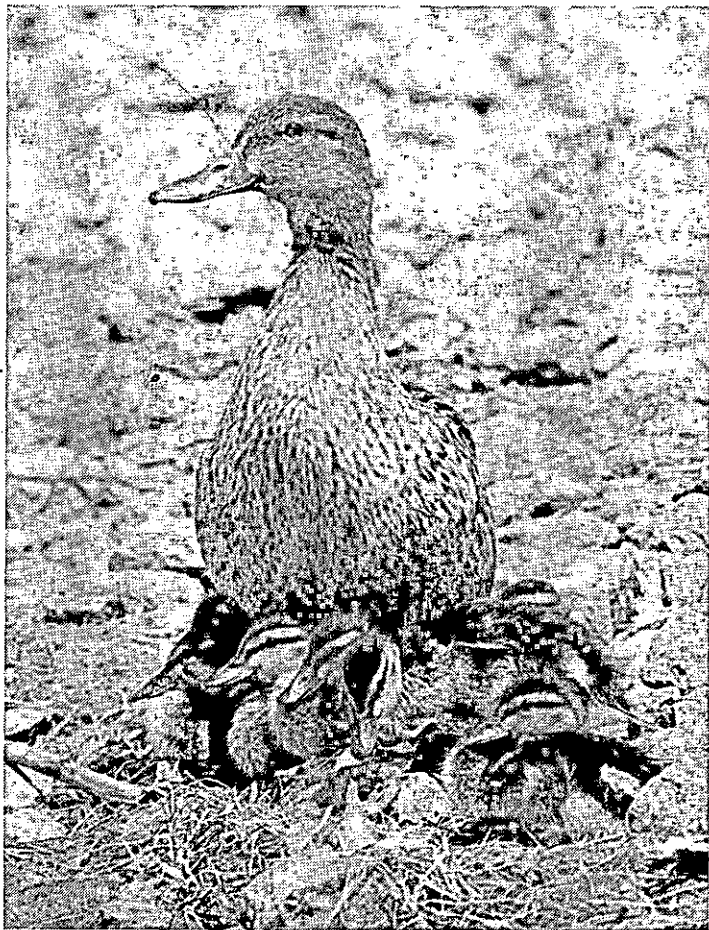
The Kentucky Warbler

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OUR COVER

Our thanks to Phillipe Roca for this excellent photograph of a female Mallard and young. (The picture was taken using a Nikon F-3 camera equipped with a 300 mm lens plus-X set at 250 ASA and 8 F/S.)

HAWKWATCHING ALONG THE CUMBERLAND RIDGE, KENTUCKY

BRAD ANDRES

INTRODUCTION

In recent years, the popularity of hawkwatching as an ornithological hobby has grown considerably. With the creation of the Hawk Migration Association of North America (HMANA) ten years ago, hawkwatchers have sprung up all across the country. However, only spotty information exists on raptor migrations in Kentucky. Outside scattered incidents of migration along the Mississippi and Ohio Rivers, the most regular migration in the state occurs along the Cumberland Mountains in southeastern Kentucky. Cumberland Gap National Historic Park provides easy access to the ridge to view the migration spectacle. Several observers have witnessed the migration on this ridge, mainly in September, and have published their observations (Stamm 1972, 1979, 1980, 1981, 1982, 1985). In helping other Kentucky birders discover hawkwatching, the purpose of this paper is to explain the role of the Cumberland Mountain in migration and provide information on the species occurring along the ridge. A bibliography is provided for those interested in reading further on the subject.

THE ROLE OF THE CUMBERLAND MOUNTAIN IN HAWK MIGRATION

The Cumberland ridge runs one hundred miles from eastern Virginia along the Virginia-Kentucky border, and into Tennessee. This ridge lies on the western edge of the ridge and valley province formed by the Appalachians. These ridges run in a northeast to southwest orientation from Maine to Alabama. It is on the eastern edge of this system that Hawk Mountain Sanctuary in Pennsylvania is located. Because of the Cumberland's position in this arrangement, patterns of migration may vary from the norm at Hawk Mountain. It has been generally found that days of northwest winds produce the best hawk flights. These winds, by perpendicularly striking the ridges, produce deflective currents that are used by hawks on their push south. Northwest winds also tend to drift hawks toward the most eastern ridges concentrating them in places like Hawk Mountain. Thus, on the western ridges, flights may be best when winds are from the north or the east resulting in little drift or even "reverse drift". Hurly (1970) found that on a similarly positioned ridge in West Virginia, peak flights occurred on days with southeast winds. Although this may be an example of reverse drift, Hurly's data was concerned with Broad-winged Hawk flights in September which peak in a rather constricted time frame. Further investigations on ridges like the Cumberland may reveal some interesting patterns. One such pattern would be the utilization of these western ridges in spring migration. Besides deflective air currents, hawks also utilize rising warm air masses, thermals, to minimize their energy expenditure during migration. Broad-winged Hawks are well known for their behavior of kettling in large numbers in thermals. Hawks also use ridges as a navigational aid. These "leading lines" aid the bird visually in heading south. (For a thorough treatment of wind drift and leading lines see Mueller 1967).

HAWKWATCHING ON THE RIDGE

In the past, observers have found the parking lot at the park headquarters (Stamm pers. comm.) and the pinnacle overlook to be satisfactory places to view the passage of migrating raptors. From the front of the overlook, facing north, birds can be spotted coming down both sides of the ridge and directly overhead. On days of clear skies and warm temperatures, birds are often spotted straight up at the limit of binocular vision. Overcast conditions provide the observer with an easier viewing of a low altitude flight. The passing of a front and moderate winds yield the best results. Hawkwatchers are encouraged to record weather parameters according to HMANA's "Instructions for Daily Report Forms". These parameters include: Maximum visibility, temperature, sky condition, wind speed and direction, altitude of flight, flight direction, number of observers, minutes of observation, and hourly species observations. All these bits of information are logged onto a computer form which can be turned into HMANA for nationwide compilation. By being diligent in recording, one can contribute to the general knowledge of hawk migration as well as discern daily and seasonal trends at a specific site.

THE FLIGHT ON CUMBERLAND MOUNTAIN

Generally, hawk migration along the Appalachian occurs from late August to early December. In the past two years I have spent 43.5 hours at the pinnacle observing fall migrating hawks. In this time I have recorded 259 individuals representing ten species. Table I presents the numbers of individuals and the species observed. The lookout has produced an average of six birds per hour over this time. As can be expected, Broad-winged Hawks were the dominant species observed. This species is also probably the most variable from year to year depending upon the September temperatures. (See Stamm 1972 regarding a spectacular flight of Broad-wings on the ridge). One surprise was a rather large movement of 166 Turkey Vultures and 16 Red-shouldered Hawks on November 8, 1985 (Stamm 1986). I believe October and November hold the most promise of interesting and unique hawkwatching experiences on the Cumberland ridge. Another interesting aspect of the fall migration is the movement of Sharp-shinned Hawks in relation to Cooper's Hawks. Both Mengel (1965) and Monroe (1969) regard the Cooper's as more abundant in the fall than the Sharp-shinned. I have found the ratio of Sharp-shinned to Cooper's to be heavily skewed toward the former and in accordance with those of other Appalachian lookouts (Table II). In fact, Mengel's *Birds of Kentucky* (1965) provides little information on raptor migration within the state. It is my hope that these brief notes will spark interest in other Kentucky birders to explore hawkwatching and fill in the gaps in our ornithological record. As the Stamms will agree, once you've gazed upon a kettle of Broad-wings, you will forever have your eyes to the skies.

Table I. Numbers and species of raptors observed at Cumberland Gap.

DAYS	HOURS	BV	TV	SS	CR	RT	RS	BW	BE	NH	OS	PF	AK	UU ¹	TOT ²
7	43.5	4	166	58	6	61	17	188	1	7	5	2	8	6	259

Species are listed taxonomically from Black Vulture to American Kestrel.

1 - unidentified

2 - total does not reflect vultures

Table II. Ratios of Sharp-shinned Hawks : Cooper's Hawks at Appalachian lookouts.

Lookout	SS : CH
Hawk Mountain, PA	14 : 1
Raccoon Ridge, NJ	15 : 1
Chilhowee, TN	10 : 1
Mount Tom, MA	11 : 1
Cumberland Gap, KY	10 : 1

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THE SPRING MIGRATION OF 1986

ANNE L. STAMM

The weather in the spring of 1986 was similar throughout the state: temperature above normal and rainfall below normal. A few record highs were broken at Paducah on March 25 and 30 with 76 and 84 degrees, respectively. In sharp contrast, however, temperatures dipped to a low of 25 degrees in Casey County on 23 April, 25 degrees in the Lake Cumberland region and 28 degrees at Louisville. These low temperatures retarded migration.

The general opinion of observers seemed to be that waterfowl movement was early. There were mixed reports on the shorebird migration due to the dry season and some loss of habitat. Thrushes and warblers seemed to be in lower numbers than in previous seasons and the height of the warbler migration appeared to be in mid-May.

Several unusual species of birds were reported: Golden Eagle, Peregrine Falcon, Franklin's, Laughing and Thayer's Gulls, Fish Crows, and a Black-headed Grosbeak.

Loons through Herons — A few Common Loons were reported beginning with a single migrant at Lake Pewee on March 26 (JH), two at Cumberland Gap on April 5 (BA), other scattered reports with a maximum of seven at Lake Barkley and last observed there on May 25-26 (BPB, J. Robinson, D. Ebel). Pied-billed Grebes were scarce with a high of 11 at Lake Pewee on March 11 (JH) and one as late as May 6 on the Sauerheber Unit of Sloughs WMA, Henderson County (hereafter S.S.). The only Horned Grebes reported were the five at Lake Pewee on March 11 (JH) and at Cave Run Lake, March 19 (BA). At Least 12 Double-crested Cormorants were seen flying over Lake #9 on April 5 (DN, BBC), two hundred forty there on April 6 (BPB), four, May 26 and one at the Falls of the Ohio, May 1 (BPB). There were reports of single American Bitterns from S.S., April 13 (BA BPB, LR, C. Justice), Grayson County, May 10 (*vide* KC), Lentz's Pond in Louisville, May 14 and two at Reelfoot NWR, April 20 (BPB), while a Least Bittern was reported only at S.S., May 25 (BPB, D. Ebel). Single Great Blue Herons were reported at only four locations: Boyle, Fayette, Hopkins and Trimble Counties. Small numbers of Great Egrets were present in Ballard and Fulton Counties during April and May (BPB); singles at East Bend Bottoms, Boone County, April 5 (LMc), Shippingport Island, April 7 (BPB), and Cave Run Lake, Rowan County, May 8 (BA). Single Snowy Egrets returned to the Falls of the Ohio, May 20-21 and at Swan Lake, Ballard County, May 26 (BPB). Also, six to eight Little Blue Herons were seen at Swan Lake, May 7 and 26 (BPB). Cattle Egrets were widely distributed and reported from Reelfoot NWR, April 6 and 20, Lake Barkley, May 6-7 (BPB); Murray, May 5 (MM); Dewey Lake, Warren County, April 17-18 (WM); Shippingport Island, May 19 and 31 (BPB, S, BBC); and Bernheim Forest in March (no date given — A. Coomes *vide* BPB). Highest count was 11 at Murray (MM). Green-backed Herons were late in arriving with the earliest at Madisonville on April 11 (JH). Numbers were low with the exception of the 17 at Cave Run Lake, May 8 (BA). Black-crowned Night Herons returned to Shippingport Island on March 26 with a high count of 123 on May 16 (LR); one hundred fifty at the Falls of the Ohio, May 22 (BPB); also observed at Lexington Reservoir (BA). The five

reports of Yellow-crowned Night Herons included six birds at Lexington (BA), five at Shippingport Island, one at S.S., two at Reelfoot NWR (BPB); and one at the Falls of the Ohio (DN, P. Noble).

Waterfowl — The waterfowl movement was in early March in most sections of the state; marsh ducks, with the exception of the Blue-winged Teal, left early, while divers lingered a bit longer. A single Mute Swan was reported on a pond at Berea along I-75 on April 6 (BA) and at S.S. from March 15-April 13 (BPB). The Greater White-fronted Goose which had been reported at Honker Lake previously was still present on April 14 (E. Ray), while 17 Snow Geese still lingered at Swan Lake, March 2, (BPB). The highest counts of marsh ducks included 100 Pintails between Bayou and Carrsville, Livingston County and at Swan Lake, March 1 and 2, respectively; over 300 Blue-winged Teal in Henderson and Union Counties, 5 April; 100 Shovelers, 150 Gadwalls in Henderson County, 16 March; 100 American Wigeons at Swan Lake, March 2 (BPB) and at Lexington Reservoir, March 21 (BA). Fairly large groups of diving ducks included 100 Canvasbacks and 100 Redheads at Swan Lake, March 2 and 200 of the latter species in Livingston County, March 1 (BPB). There were 200 Lesser Scaups at Cave Run Lake, March 19 (BA) and 90 at Louisville in the Ohio River basin, March 26 (LR). A pair of Greater Scaups was present at Three Springs, Warren County, April 13 (WM). A Common Merganser in the Danville area was the "first since '79" (FL).

Hawks — No large migrating hawk flights were reported. Single Ospreys were reported at four locations: northeast corner of Shelbyville on May 8 (WB); Land Between the Lakes and at Paradise Steam Plant, April 6 (DN, BBC); Falls of the Ohio, April 13, 22, 28 and May 6 (BPB). Three Mississippi Kites were observed in Hickman County, May 7 (BPB with J. T. Erwin). A sub-adult Bald Eagle was noted at Cumberland Gap, March 17 (BA). Sharp-shinned Hawks were seen occasionally in Boone County with one at Boone Cliffs on May 17 (LMc); one in Shelbyville, May 9 (WB); one at Cumberland Gap, March 17, three on April 5 (BA). Few observers mentioned Cooper's Hawks, but two were present throughout the period at Big Pond Sanctuary, Grayson County (KC); singles at Cumberland Gap, March 17 and April 4 (BA) and in Carroll County, May 24 (S, DS). Single Rough-legged Hawks were reported from Danville, February 22 and March 5 (FL, W. Kemper), Glasgow, March 22 (RS) and Clark County, March 24 (BA, A sub-adult Golden Eagle in Livingston County on March 1 was unusual (BPB, LR, D. Ebel). There were two sightings of adult Peregrine Falcons: one at Reelfoot NWR, April 20 (BPB) and at Louisville, May 3 (BPB and BBC).

Rails through Coots — It was a good year for rails. A King Rail, two Virginia Rails and 10 Soras were flushed at S.S. on April 13 (BPB, BA, LR, C. Justice). Other Soras reported included several at Dewey Lake, May 4-10 (WM), one at Clark Fish Hatchery, Rowan County, May 8 and one found dead on the University of Kentucky Campus, April 23 (BA). A Common Moorhen returned to Lexington Reservoir, May 8 (BA) and six or more at S.S. on May 25 (BPB, D. Ebel). Fair numbers of American Coots were observed at Lake Pewee (JH) and approximately 1000 fed above the dam on Kentucky Lake, April 6 (BPB). Two small flocks of Sandhill Cranes were seen: one over Anderson County on March 21 and one over Owen County, March 23 (L. Andrews & M. Baggott *vide* BPB).

Shorebirds — Due to the dry season the shorebird habitat and concentrations were unevenly distributed. Bowling Green and Danville had unusually poor flights. A fair number of species were observed but numbers, with few exceptions, were low. Black-bellied and Lesser Golden Plovers were in low numbers with three of the former as the high at the Falls of the Ohio, May 16 (DN, P. Noble) and in Fulton County (M. Bierly *vide* BPB). The Lesser Golden Plover arrived at Jonathan Creek, Marshall County, March 10 which established an early date (MM); three at the Falls of the Ohio, one in western Henderson County and a total of nine at Open Pond, Fulton County was the highest number reported (BPB). Semipalmated Plovers were widespread and were present from April 20 to May 24. Some of the more interesting sightings included eight at Clark Fish Hatchery, May 8 (BA), eleven at East Bend, May 10 (LMc), and 115 in scattered flocks in western Henderson County, May 6 (BPB). Greater Yellowlegs were later than usual with the earliest arrival on March 28 at Elk Creek, Hopkins County (JH), numbers were small, with the exception of 80 on April 13 in western Henderson County (BPB *et al.*). numbers of Lesser Yellowlegs were low except for those in Henderson and Fulton Counties, where scattered flocks totaled 145 and 325, respectively. Solitary Sandpipers began arriving on April 5 at East Bend (LMc) and in Fulton County (DN, BBC). Single Willets appeared at Kentucky Dam and at the Falls of the Ohio, April 19 and 28, respectively, with seven at the former location, May 7 (BPB and with J. T. Erwin at the latter location). The only Spotted Sandpipers reported were several at Dewey Lake, Three Springs (WM) and Pine Mountain State Park (BA). Ruddy Turnstones are rare in spring, but three to five were at the Falls of the Ohio from May 14-21 (DN, P. Noble, BPB), one still there, May 28 (LR) and one at Newburgh Dam, Henderson County, May 24 (BPB). The reports of Sanderlings at the Clark Fish Hatchery, May 8 (BA) and at Swan Lake, May 26 (BPB, D. Ebel) were noteworthy. Least and Semipalmated Sandpipers were found in Fulton, Henderson, Boone and Jefferson Counties with counts of 60 of the former species and 75-100 of the latter in western Henderson County. Also, flocks of "peeps" (100-300) at the Falls of the Ohio, May 14 and 16, with the majority being Semipalmated (DN, BPB). A single White-rumped Sandpiper near Hamlin, Calloway County, May 8 was an interesting find (MM) as were the six at S.S. on May 6 (BPB), several at Lake #9, May 7 (BPB with J. T. Erwin) and four to eight at the Falls of the Ohio, May 16-23 (BPB). Pectoral Sandpipers were fairly widespread with the earliest reported at Jonathan Creek, March 10 with 50 birds (MM); one hundred in Fulton County, April 5 (DN, BBC), 350 there on April 20 (BPB) and 75 in Henderson County, May 6 (BPB), last reported at Danville, May 10 (FL, W. Kemper). Pectoral Sandpipers were also observed at Cave Run Lake, March 19 and in Fayette County, March 21 (BA). A flock of 100+ Dunlin at Jonathan Creek on March 10 was unusually early and established an early date (MM). Also, one to six Dunlins were present during April and May at S.S., Lake #9, Falls of the Ohio (BPB, BA, J. T. Erwin) and Clark Fish Hatchery (BA). Two — three Stilt Sandpipers were present at S.S., April 13 and May 6 (BA, BPB): several at Lake #9, May 7 (BPB, J. T. Erwin) and five at the Falls of the Ohio, May 14 (BPB). A single Short-billed Dowitcher was heard and seen at Mayfair settling basins, Louisville, May 3, three at the Falls of the Ohio on May 16 and three heard and seen at S.S., May 6 (BPB). Also, one was reported at Reelfoot NWR, May 7 (BPB, J. T. Erwin). A dowitcher species was seen near Hamlin, May 8 (MM). Three

Long-billed Dowitchers were seen and heard at S.S. on April 5 and 13 (BPB, and latter date with BA, LR, C. Justice); and one in breeding plumage at Reelfoot NWR, April 20 (BPB). Common Snipe were reported from March 28 with seven birds at Lentz's Pond (LR) to May 10 in Grayson County (KC). Other sightings were in Fulton, Henderson (BPB), Boone (LMc) and Clark Counties (BA), with 60 to 100 birds in Henderson and Fulton Counties, respectively. A Wilson's Phalarope at Hays Kennedy Park, Louisville on March 30 was unusually early (DN, J. Noonan); singles were also found at S.S., April 13 and at Reelfoot NWR, April 20 (BPB). The only American Woodcocks reported were singles at Eubank, March 4 (JEL) and at Lexington Reservoir, May 8 (BA).

Gulls through Terns — In recent years Laughing Gulls have become more frequent visitors. Singles appeared at Smithland Dam, May 8 (BPB) and at the Falls of the Ohio, May 15-16 (LR); three to four at Kentucky Dam, May 25 (BPB, J. Robinson, D. Ebel) and five there, May 26 — a state record total (BPB, D. Ebel). An adult Franklin's Gull showed up at Kentucky Dam, April 5 (DN, BBC); five there, May 7 (BPB, J. T. Erwin), one adult on May 25, two the following day (BPB, J. Robinson, D. Ebel); one on the Falls of the Ohio, May 22, two there on May 23 (LR) and one remained on May 24 (BPB). Bonaparte's Gulls were reported from only four locations with the greatest concentration of 250 birds at Kentucky Dam, April 6 (BPB); thirty-five was the high count at the Falls of the Ohio (BPB), five still present at the latter location on May 4 (S, FS) and one at Kentucky Lake on May 7 (BPB). An adult Thayer's Gull at the Falls of the Ohio, April 10-11 was quite late (BPB, DN on the latter date). A rather late Glaucous Gull was seen at Kentucky Dam, March 1 (BPB, LR, D. Ebel).

A fairly early Caspian Tern appeared at the Falls of the Ohio, April 12 (DN) and numbers peaked at 34 on April 17 (BPB), one still there May 23 (BPB). Thirty Caspians were also noted at Lake Barkley, April 19, eight at Smithland Dam and two at Newburg Dam, May 6 (BPB). Few Common Terns were seen, but fair numbers of Forster's were recorded in western Kentucky with 40-45 at Kentucky Dam, April 19 (BPB). Two to ten Least Terns were recorded at Smithland Dam, Swan Lake and three locations in Fulton County, May 25-26, also two were present at the Falls of the Ohio, May 25-26 (BPB). Single Black Terns at Lake Barkley on May 6 and 25 were the only ones reported.

Cuckoos through Woodpeckers — The only Black-billed Cuckoos reported were singles at the Clark Fish Hatchery, May 8 (BA) and near Union, Boone County, May 10 (LMc). Yellow-billed Cuckoos appeared to be scarce and came in late, recorded earliest at Shakertown, May 7 (BA). Two Barn Owls were seen frequently at Stanley, Daviess County (TS). Common Nighthawks were quite late and not reported until April 29 at Lexington (BA) and April 30 at Somerset (JEL). Whip-poor-will's were scarce in the Owensboro area (RI). Yellow-bellied Sapsuckers appeared to be scarce; singles lingered at Burlington until May 4 (LMc) and in Grayson County on May 10 (*vide* KC). Downy Woodpeckers seemed to be in low numbers at Danville (FL).

Flycatchers through Nuthatches — Single Alder Flycatchers were heard at Shippingport, May 22 (BPB) and at Perryville, May 24 — their first since 1976 (FL, W. Kemper); five to six at S.S., May 25 (BPB).

Willow Flycatchers arrived at Petersburg, Boone County and at Clark Fish Hatchery on May 8 (LMc and BA, respectively), several at S.S., May 25 (BPB) and at least 12 at Shippingport Island, May 31 (S, BBC). A Great Crested Flycatcher in the Falls of the Rough area was ahead of schedule on March 19 (KC). The swallow migration was not exciting with low numbers of Purple Martins observed. Tree Swallows arrived on March 16 at S.S. (BPB) and 150 birds at the Falls of the Ohio, May 21 was the highest concentration reported (LR). Two flocks of Bank Swallows containing an estimated 400 birds were observed in Carroll County, May 24 (S, FS, DS). Cliff Swallows were not seen at Barren River Reservoir until April 16, but many present May 3 (WM), several groups totaling 160 were at bridges along Nolin and Rough Rivers in Grayson County, May 10 (*fide* KC). Fish Crows were observed as far north as Columbus-Belmont State Park, March 31 (R. Cierello, C. Justice *fide* BPB); one at Hickman, April 5 (DN, BBC); pairs at Open Pond and Reelfoot NWR, April 20 (BPB). There were two Common Ravens observed at Cumberland Gap, April 4 (BA).

Wrens through Shrikes — It was encouraging that Bewick's Wrens were found at five locations: Glasgow (RS), Elizabethtown (GE), Lake Cumberland area (JEL), Wheatly in Owen County (LMc) and Grayson County (BPB). Single Marsh Wrens were seen at S.S., April 13 (BPB, LR, BA, C. Justice) and Reelfoot NWR, April 21 (BPB). Wood Thrushes were in low numbers this spring. Small flocks of Cedar Waxwings were observed in mid-April (m.ob.), but migration was heaviest on May 19 when about 1000 were present at Shippingport Island (BPB). Only a few Loggerhead Shrikes were reported from Boyle (FL) and Grayson Counties (KC).

Vireos through Warblers — A single Bell's Vireo was singing in McCracken County, May 28 (BPB, D. Ebel). A Solitary Vireo at Anchorage on April 6 was a day later than our local record (BM). A Philadelphia Vireo was observed in late April in Danville (W. Kemper *fide* FL).

Warbler migration appeared to be delayed with the best movement during mid-May. Single Brewster's hybrids were at Danville, May 10 (FL, W. Kemper), near Carrollton, May 24 (LMc) and a probable sighting in western Boone County, May 17 (LMc). Parula Warblers had arrived at Land Between the Lakes (DN, BBC) and at Reelfoot NWR, April 6 (BPB). A Worm-eating Warbler at Mammoth Cave National Park on April 6 was fairly early (LR). Also, rather early was a Louisiana Waterthrush at Glasgow, March 22 (RS). Single Connecticut Warblers were present on Shippingport Island, May 19 and 21 and one to three at Surrey Hill Farm, Louisville, May 18-23 (BPB). A Wilson's Warbler in Rockcastle County on May 31 provided a late Kentucky date (FL). The two Canada Warblers near Carrollton, May 24, were rather late stragglers (LMc).

Tanagers through Finches — Single Rose-breasted Grosbeaks lingered until May 29 at Trailwood Lake, Shelby County (WB) and June 8 at Big Pond Sanctuary (KC). The occurrence of a Black-headed Grosbeak at Lexington in mid-April was exciting. The bird remained for several days (R. Morris, m. ob.). Blue Grosbeaks were reported from five locations with the earliest at Eubank on May 1 (JEL). The rare Bachman's Sparrow was heard near Hamlin, May 3, where it has been seen in previous years (MM). Fourteen Grasshopper Sparrows were observed at Masterson's

Station Park, Lexington, April 27 (BA). Henslow's Sparrows were heard in Caldwell County, May 6 and six males observed in Grayson County, May 8 (BPB). Bobolinks arrived in low numbers. A single Brewer's Blackbird was seen at Danville on March 8 (FL). The sighting of an Orchard Oriole at Land Between the Lakes on April 6 established an early date (DN, BBC). Northern Orioles were more common at Danville than for some years (FL). Many of the Purple Finches left central Kentucky on March 29 when a warm front moved into the area, but some were still present on May 10 in Boone County (LMc). Pine Siskins were widespread in early to mid-May (m.ob.), but two birds were still present at Big Pond Sanctuary, June 2 (KC). There was some movement of Evening Grosbeaks the latter part of April and early May, particularly at Madisonville (JH) and Burlington (LMc); at least 50 or more present at Big Pond Sanctuary, April 27-28 (KOS).

The writer wishes to thank the many people who contributed notes and records for this Spring Migration Report. Comments on the Nesting Season (June and July) should be mailed no later than August 5.

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BALD EAGLE COUNT IN KENTUCKY — 1986

LYNDA ANDREWS AND JAMES DURELL

A new record number of bald eagles (234) was reported on the 1986 census. January 4 was the target date within a time frame of January 2-16. This census was done in conjunction with the U. S. Fish and Wildlife Service Waterfowl census. The National Wildlife Federation now records only the counts at Ballard County, Lake Barkley and Dale Hollow, rather than the full state census. Weather during the period was clear and seasonably warm.

Of the 234 bald eagles, 148 were mature and 86 (37%) were immature. This count was 64% above last year's total and 6% above the previous record of 1984. Reelfoot Lake was partly frozen over. The large increases on the Mississippi and lower Ohio Rivers probably included Reelfoot eagles seeking open water. Four adult golden eagles were reported below Wolf Creek Dam, and three adults and two immatures at Ballard County

Waterfowl area. The Non-game crew was unable to find those at Ballard County a week later.

Again no eagles were reported from Obion and Mayfield Creek Bottoms nor the lakes in the Barlow Bottoms near the confluence of the Ohio and Mississippi Rivers. These were very productive in 1984.

Green River Lake and the Kentucky portion of Dale Hollow also had significant increases. Lake Cumberland had a modest increase, still below the record 1984 count. The Mississippi River count was still far below the 72 seen in 1984.

Table I summarizes the 1986 census, with some earlier high records.

TABLE I—Kentucky Bald Eagle Census, January 2-16, 1986, with some earlier high counts.

ROUTE	1986			Earlier records	
	Ad.	Imm.	Total	High	Year
Land Between the Lakes	25	13	38	54	1984
Mississippi River	31	15	46	72	1984
Ohio River, Wickliffe to north					
Livingston Co. (Carrsville)*	55	34	89	47	1984
Ohio River, Carrsville-Owensboro	4	2	6	7	1984
Ohio River, Battletown-Louisville	1	4	5		
Green River Lake	6	6	12	6	1985
Dale Hollow, Kentucky portion	9	7	16	12	1983
Lake Cumberland	7	1	8	14?	1983
Cumberland R., dam to Burkesville*	7		8		
Cave Run Lake	2	1	3	7	1984
Laurel Lake	1	1	2	9	1985
Martin's Fork		2	2	0	
Totals	148	86	234		

*Golden eagles were reported.

Twenty-one parties reported other hawks. Counts for 1985 are in parenthesis: American Kestrel 103(105); Redtailed 68(76); Marsh hawk 7(5); Rough-legged 3(1); Red shouldered 3(2); Sharp-shinned 2(1); Cooper's 3(3); Osprey 0(3); unidentified hawks 2(2).

There were 114 participants in 36 parties. They represented the Kentucky Ornithological Society, federal and state Fish and Wildlife agencies, TVA, U.S. Forest Service, U.S. Army Corps of Engineers, National Park Service, Audubon Society and Owensboro Area Museum. Space does not permit listing these individuals, but their help is gratefully acknowledged, and solicited next year.

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KENTUCKY ORNITHOLOGICAL SOCIETY MEMBERSHIP ROLL

The K.O.S. membership roll that follows is current through July 1986. Everyone appreciates having their name spelled correctly and I apologize now for any that are misspelled. This is a great opportunity to ensure that your name will be spelled correctly in the future. Please forward any corrections of names, addresses, membership status, etc. to the editor. Also, let the editor know if you prefer to use a nickname. Thank you.

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- L Young, Paul G., MD, 239 S. Hanover Ave., Lexington 40502
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- Zollner, Raymond J., 3216 Dogwood Dr., Louisville 40220
- C Zurcher, Mrs. Helen P., 178 Edgewood Way, Louisville 40243

LIBRARIES, COLLEGES, CLUBS, ETC.

Beechmont Garden Club, c/o Louise Pile, 6804 Homestead Dr., Louisville,
KY 40214

Bernheim Forest Nature Center, Bernheim Forest, Clermont, KY 40110

- Louisiana State University, Library - Serials Dept., Baton Rouge, LA 70803
Aquisitions Division, Albert R. Mann Library, Cornell University, Ithaca, NY 14853
- U.S. Dept. of Interior 116202, Office of Library Serv., Serial Branch, Washington, D.C. 20240
- Louisville Free Public Library, 4th and York Sts., Louisville, KY
Serials Division, Ohio State University Library, 1858 Neil Ave., Columbus, OH 43210
- Periodicals/Record Clerk, Morris Library, Southern Illinois University Carbondale, IL 62901
- Camden-Carroll Library, Morehead State University, Morehead, KY 40351
T.V.A., Norris Branch Library, Norris, TN 37826
- Biology Dept., 101 Burrill Hall, 407 S. Goodwin Ave., University of Illinois, Serials Dept., Urbana, IL 61801
- Murray State Library, Periodicals Dept., Murray State University, Murray, KY 42071
- Lincoln Memorial, University Library, Harrogate, TN 37752
- Serials Unit, Purdue University Libraries, West Lafayette, IN 47907
- Crabbe Library Periodicals Div., Central Serials, Eastern Kentucky University, Richmond, KY 40475
- Memorial Library - Serials, University of Wisconsin, 728 State St., Madison, WI 53706
- Helm Craven Library, Serials Dept., Western Kentucky University, Bowling Green, KY 42101
- Corps of Engineers, Carr Fork Lake, General Delivery, Sassafras, KY 41759
- British Library, Document Supply Center, Serials Acquisitions, Boston Spa-Yorks LS 23 7BQ, England
- U.S. Fish & Wildlife Service, Ky. Research Station, 334 15th St., Bowling Green, KY 42101
- Library Nerriam Lab., U.S. Fish & Wildlife Service, Patuxent Wildlife Reserve, Laurel, MD 20708
- Science Library, E-25-13 Young Hall, c/o Grace Doherty Library, Centre College, Danville, KY 40422
- The Library-Serials Dept., Michigan State University, East Lansing, MI 48824
- Kentucky Dept. of Libraries, Periodical Section, Box 537, Frankfort, KY 40602
- Serials Technical Service, Mitchell Memorial Library, Mississippi State University, MI 39762
- NY State Labrary-Ser. Cont., Cultural Education Center, Empire State Plaza, Albany, NY 12230

NEWS AND VIEWS

K.O.S. FALL MEETING

The K.O.S. Fall Meeting will be held 3-5 October at Kenlake State Park. Mark your calendar now, make your reservations soon and get ready for some good birding. Anyone who would like to share unusual birding experiences or research findings at the Friday evening meeting should contact Jim William, Program Chairman, 480 Seeley Dr., Lexington 40502.

ADDITIONS TO OUR LIFE MEMBERSHIP ROSTER

We are pleased to welcome the following members to our growing company of Life Members. These individuals have joined as Life Members since the publication of our 1982 membership roll. They are: Mrs. Irvin Abell, Louisville; Dr. Garrett Adams, Louisville; Fred Busroe, Morehead; Charles Elliott, Richmond; Katherine Fulkerson, Louisville, Dr. Sue Hall, Louisville, Eric Helfrich, Churubusco, Indiana, Harriet A. Korfhage, Louisville; Dr. Richard Peake, Wise, Virginia; Glenn Raleigh, Lexington; Dr. J. Marion Staughan, Wise, Virginia; Dr. Betty Thomas, Shelbyville; William Tucker, Kingston, New Hampshire; and Herbert Zimmerman, Louisville.

We are again reminded of what the late Dr. Gordon Wilson, founder of the Kentucky Ornithological Society, once said: "It is always a mark of faith in the purpose and in the future of our society when someone becomes a Life Member; all of us feel highly honored when additions are made to this portion of our society's membership roll."